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## **ABSTRACT**

The present invention relates to low a dielectric material essential for a next generation semiconductor with high density and high performance, and more particularly to a low dielectric material that is thermally stable and has good film-forming properties and excellent mechanical properties, a dielectric film comprising the low dielectric material, and a semiconductor device manufactured using the dielectric film.

The present invention provides an organic silicate polymer having a flexible organic bridge unit in the network prepared by the resin composition of the component (a) and the component (b).

- a) organosilane of the formula  $R^1_m R^2_n SiX_{4-m-n}$  (where each of  $R^1$  and  $R^2$  which may be the same or different, is a non-hydrolysable group; X is a hydrolysable group; and m and n are integers of from 0 to 3 satisfying  $0 \le m+n \le 3$ ) and/or a partially hydrolyzed condensate thereof
- b) organic bridged silane of the formula R³pY₃-pSi-M-SiR⁴qZ₃-q (where each of R³ and R⁴ which may be the same or different, is a non-hydrolysable group; each of Y and Z which may be the same or different, is a hydrolysable group; and p and q are integers of from 0 to 2) and/or a cyclic oligomer with organic bridge unit (Si-M-Si).

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